VOLUME XX

INDEX OF PAPERS AND TECHNICAL NOTES BY AUTHORS

Short papers and notes are marked (N) in this index

Author	*Title*	*Page*
DE BALBINE, GUY & FRANKLIN, JOEL N.	The Calculation of Fourier Integrals	570
BARRODALE, IAN	A Note on Equal Sums of Like Powers (N)	318
BEN-ISRAEL, ADI	A Note on an Iterative Method for Generalized Inversion of Matrices (N)	439
BERGER, BRUCE S.	Inversion of the N-Dimensional Laplace Transform (N)	418
BLUNDON, W. J.	See: LAL, M. & BLUNDON, W. J.	144
BLUNDON, W. J.	See: LAL, M., JONES, M. F. & BLUNDON, W. J.	322
BOROSH, I. & FRAENKEL, A. S.	Exact Solutions of Linear Equations with Rational Coefficients by Congruence Techniques	107
BRANDT, ACHI	Estimates for Difference Quotients of Solutions of Poisson Type Difference Equations	473
BURROWS, JAMES W.	Maximization of a Second-Degree Polynomial on the Unit Sphere (N)	441
BUTCHER, J. C.	On the Convergence of Numerical Solutions to Ordinary Differential Equations	1
CARLSON, B. C.	See: NELLIS, W. J. & CARLSON, B. C.	223
DAY, J. T.	A Note on Best Approximation in E^n	599
DECELL, H. P., JR., GUSEMAN, L. F., JR. & LEA, R. N.	Concerning the Numerical Solution of Differential Equations (N)	431
DELVES, L. M.	Exponential Differences	246
DENMAN, HARRY H.	Minimax Polynomial Approximation	257
DÖRING, BORO	Complex Zeros of Cylinder Functions	215
DURIS, C. S.	A Simplex Sufficiency Condition for Quadrature Formulas	68
EDELBLUTE, DAVID J.	Matrix Inversion by Rank Annihilation (N)	149
FAIR, WYMAN & LUKE, YUDELL L.	Rational Approximations to the Solution of the Second Order Riccati Equation	602
FRAENKEL, A. S.	See: BOROSH, I. & FRAENKEL, A. S.	107
FRANKLIN, JOEL N.	See: DE BALBINE, GUY & FRANKLIN, JOEL N.	570
FYFE, DAVID J.	Economical Evaluation of Runge-Kutta Formulae	392
GAUTSCHI, WALTER	Computation of Successive Derivatives of $f(z)/z$	209
GLASSER, M. L.	Evaluation of Some Integrals Involving the ψ-Function (N)	332
GLASSER, M. L.	See: WOOD, VAN E., KENAN, R. P. & GLASSER, M. L.	610
GODART, M.	An Iterative Method for the Solution of Eigenvalue Problems	399
GUSEMAN, L. F., JR.	See: DECELL, H. P., JR., GUSEMAN, L. F., JR. & LEA, R. N.	431
HABER, SEYMOUR	A Modified Monte-Carlo Quadrature	361
HART, ROGER G.	A Close Approximation Related to the Error Function	600
HUBBARD, BERT	Some Locally One-Dimensional Difference Schemes for Parabolic Equations in an Arbitrary Region	53
JAGERMAN, D.	Investigation of a Modified Mid-Point Quadrature Formula	79
JARRATT, P.	Some Fourth Order Multipoint Iterative Methods for Solving Equations (N)	434
JONES, M. F.	See: LAL, M., JONES, M. F. & BLUNDON, W. J.	322
KANIEL, SHMUEL	Estimates for Some Computational Techniques in Linear Algebra	369
KENAN, R. P.	See: WOOD, VAN E., KENAN, R. P. & GLASSER, M. L.	610
KING, RICHARD	Runge-Kutta Methods with Constrained Minimum Error	

Author	*Title*	*Page*
	Bounds	386
KRAVITZ, SIDNEY	Distributions of Mersenne Divisors (N)	448
LAL, M. & BLUNDON, W. J.	Solutions of the Diophantine Equations $x^2 + y^2 = l^2, y^2 + z^2 = m^2, z^2 + x^2 = n^2$ (N)	144
LAL, M., JONES, M. F. & BLUNDON, W. J.	Numerical Solutions of the Diophantine Equation $y^3 - x^2 = k$ (N)	322
LAMBERT, J. D. & SHAW, B.	A Method for the Numerical Solution of $y' = f(x, y)$ Based on a Self-Adjusting Non-Polynomial Interpolant	11
LANDER, L. J. & PARKIN, T. R.	Equal Sums of Biquadrates (N)	450
LEA, R. N.	See: DECELL, H. P., JR., GUSEMAN, L. F., JR. & LEA, R. N.	431
LEAVITT, JAY A.	Methods and Applications of Power Series	46
LEES, MILTON	A Linear Three-Level Difference Scheme for Quasilinear Parabolic Equations	516
LEHMAN, R. SHERMAN	Separation of Zeros of the Riemann Zeta Function	523
LETHER, FRANK G.	The Use of Richardson Extrapolation in One-Step Methods with Variable Step Size	379
VAN LINDE, H. J.	See: VAN DE VOOREN, A. I. & VAN LINDE, H. J.	232
LOW, R. D.	On the First Positive Zero of $P_\nu^{(-m)}(\cos\theta)$, Considered as a Function of ν (N)	421
LUKE, YUDELL L.	See: FAIR, WYMAN & LUKE, YUDELL L.	602
MANGAD, MOSHE	Bounds for the Two-Dimensional Discrete Harmonic Green's Function	60
MECHEL, FR.	Calculation of the Modified Bessel Functions of the Second Kind with Complex Argument	407
MITCHELL, W. C.	The Number of Lattice Points in a K-Dimensional Hypersphere	300
MOON, J. W. & MOSER, L.	A Matrix Reduction Problem (N)	328
MOORE, DOUGLAS H.	A Division Algebra for Sequences Defined on *All* the Integers	311
MOSER, L.	See: MOON, J. W. & MOSER, L.	328
MUSKAT, JOSEPH B.	On Divisors of Odd Perfect Numbers (N)	141
NELLIS, W. J. & CARLSON, B. C.	Reduction and Evaluation of Elliptic Integrals	223
NEWBERRY, A. C. R.	Interpolation by Algebraic and Trigonometric Polynomials	597
PARKIN, T. R.	See: LANDER, L. J. & PARKIN, T. R.	450
PARLETT, BERESFORD	Singular and Invariant Matrices under the QR Transformation	677
RICE, JOHN R.	Experiments on Gram-Schmidt Orthogonalization (N)	325
ROBERTS, K. V. & WEISS, N. O.	Convective Difference Schemes	272
RUDNICK, PHILIP	Note on the Calculation of Fourier Series (N)	429
SATO, CHIKARA	Correction of Stability Curves in Hill-Meissner's Equation	98
SCHMID, LARRY P.	See: SHANKS, DANIEL & SCHMID, LARRY P.	444
SHANKS, E. BAYLIS	Solutions of Differential Equations by Evaluations of Functions	21
SHANKS, DANIEL	See: WRENCH, J. W., JR. & SHANKS, DANIEL	444
SHANKS, DANIEL & SCHMID, LARRY P.	Variations on a Theorem of Landau. Part I	551
SHAW, B.	See: LAMBERT, J. D. & SHAW, B.	11
SHISHA, O.	The Chebyshev Polynomial of Best Approximation to a Given Function on an Interval	266
SOLOMON, ALAN	Some Remarks on the Stefan Problem	347
SPIRA, ROBERT	Zeros of Sections of the Zeta Function. I	542
STROUD, A. H.	Some Fifth Degree Integration Formulas for Symmetric Regions	90

Author	*Title*	*Page*
TAKENAGA, ROY	On the Evaluation of the Incomplete Gamma Function	606
THOMPSON, RORY	Evaluation of $I_n(b) = 2\pi^{-1}\int_0^\infty ((\sin x)/x)^n \cos(bx)\,dx$ and of Similar Integrals (N)	330
TRAUB, J. F.	A Class of Globally Convergent Iteration Functions for the Solution of Polynomial Equations	113
TREANOR, CHARLES E.	A Method for the Numerical Integration of Coupled First-Order Differential Equations with Greatly Different Time Constants	39
TUNG, SHIH-HSIUNG	Boundedness of Difference Kernels of Bessel and Fourier Series (N)	157
UCHIYAMA, SABURÔ	A Note on a Theorem of J. N. Franklin (N)	139
VARAH, JAMES M.	Certification of Parlett's ALGOL Eigenvalue Procedure Eig 3 (N)	437
VERMA, ARUN	Certain Expansions of the Basic Hypergeometric Functions (N)	151
VERMA, ARUN	A Note on an Expansion of Hypergeometric Functions of Two Variables	413
VERMA, ARUN	Expansions Involving Hypergeometric Functions of Two Variables	500
VOIGT, ROBERT G.	On a Numerical Solution of an Integral Equation with Singularities (N)	163
VAN DE VOOREN, A. I. & VAN LINDE, H. J.	Numerical Calculation of Integrals with Strongly Oscillating Integrand	232
WEISS, N. O.	See: ROBERTS, K. V. & WEISS, N. O.	272
WIDLUND, O. B.	On the Rate of Convergence of an Alternating Direction Implicit Method in a Non-Commutative Case	500
WOOD, VAN E.	Some Integrals of Ramanujan and Related Contour Integrals (N)	424
WOOD, VAN E., KENAN, R. P. & GLASSER, M. L.	Doppler Broadening Integrals	610
WRENCH, J. W., JR. & SHANKS, DANIEL	Questions Concerning Khintchine's Constant and the Efficient Computation of Regular Continued Fractions (N)	444
YANG, C. H.	Some designs for maximal (+1, −1)-Determinant of Order $n = 2 \pmod 4$ (N)	147

INDEX OF REVIEWS BY AUTHOR OF WORK REVIEWED

Author	*Review Number*	*Table Classification*	*Page*
ABRAMOWITZ, MILTON, Editor	1	[A-F, H-M, R, S, X]	167
ALDER, BERNI, Editor	37	[V, X, Z]	190
ARSAC, J.	114	[Z]	637
ATTWOOD, C.	4	[D]	168
ATTWOOD, C.	5	[D]	169
ATTWOOD, C.	6	[C, D]	169
ATTWOOD, C.	7	[C, D]	170
ATTWOOD, C.	8	[C]	170
BARNETT, V. D.	19	[K]	176
BARRIÈRE, G.	2	[A, C]	167
BARY, N. K.	38	[X]	191
BECKER, MARTIN	39	[X]	195
BEEGER, N. G. W. H.	68	[F]	456
BEEGER, N. G. W. H.	69	[F]	456
BENEŠ, V. E.	57	[P, X]	339

Author	*Review Number*	*Table Classification*	*Page*
BENNETT, B. M.	92	[K]	622
BILLINGSLEY, PATRICK	73	[P, X]	459
BISHOP, R. E. D.	32	[P, X]	186
BLANCH, G.	23	[L]	179
BLUNDON, W. J.	89	[F]	620
BROOKS, F. P., JR.	60	[Z]	341
BRUYEVICH, N. G., Editor	44	[Z]	199
BURROWS, WALTER HERBERT	62	[Z, P]	342
CASLIN, JAMES C.	99	[L, M]	626
CASLIN, JAMES C.	100	[L, M]	627
CASLIN, JAMES C.	101	[L, M]	627
CHERVONENKIS, O. A.	64	[A-E, X, Z]	452
CHISHOLM, J. S. R.	35	[S, X]	188
CHRISTENSON, CHARLES	75	[W]	461
CLEMM, DONALD S.	23	[L]	179
COPSON, E. T.	27	[M, X]	182
COURANT, RICHARD	109	[X]	634
DAVIS, MARTIN, Editor	45	[Z]	199
DAVIS, PHILIP J.	15	[G]	174
DAVIS, PHILIP J.	18	[I, X]	175
DELEEUW, SAMUEL L.	74	[P, X]	460
DITKIN, V. A., Editor	94	[L]	623
ECKHAUS, WIKTOR	108	[X]	633
EMERSLEBEN, OTTO	102	[L, S]	628
ENCYCLOPEDIA OF MATHEMATICS, THE UNIVERSAL	42	[X]	197
FERNBACH, SIDNEY, Editor	37	[V, X, Z]	190
FETTIS, HENRY E.	99	[L, M]	626
FETTIS, HENRY E.	100	[L, M]	627
FETTIS, HENRY E.	101	[L, M]	627
FREEMAN, HERBERT	20	[K, P]	177
FRISCH-FAY, R.	55	[L]	338
FRY, THORNTON C.	21	[K, P]	178
GARDINER, W. K.	66	[D]	454
GAUSS, CARL FRIEDRICH	86	[F]	617
GERMAIN, CLARENCE B.	82	[Z]	466
GLADWELL, G. M. L.	32	[P, X]	186
GOLDEN, JAMES T.	83	[Z]	466
GRADSHTEYN, I. S.	85	[A, J, L, M]	616
HAMASHITA, SEIJI	98	[L, M]	625
HARTMAN, PHILIP	28	[M, X]	183
HENRICI, PETER	29	[M, X]	183
HILDEBRAND, FRANCIS B.	40	[X]	193
HOLLINGDALE, S. H.	111	[Z]	635
HORST, C.	92	[K]	622
INOUE, YUJI	98	[L, M]	625
INSTITUTO GULBENKIAN DE CIENCIA	84	[Z, X]	467
IVERSON, K. E.	60	[Z]	341
JENNINGS, WALTER	79	[X]	463
JOHN, FRITZ	109	[X]	634
JONES, M. F.	89	[F]	620
KARPOV, K. A.	91	[I]	621
KATSURA, SHIGETOSHI	98	[I, M]	625
KAUFMAN, H.	104	[L, X]	631
KEMENY, JOHN G.	63	[Z, X]	342

Author	Review Number	Table Classification	Page
KHABAZA, I. M.	58	[X]	340
KHINCHINE, A. YA.	12	[F, X]	171
KHINTCHIN, A. YA.	11	[F, X]	171
KHRENOV, L. S.	67	[D, P, R]	455
KILPATRICK, J. E.	98	[L, M]	625
KLEINROCK, LEONARD	22	[K, P]	178
KRISHNAN, T.	54	[K, L, M]	337
KRONROD, ALEKSANDR SEMENOVICH	30	[M, X]	184
LAL, M.	89	[F]	620
LEBEDEV, N. N.	26	[L, X]	181
LECHT, CHARLES PHILIP	113	[Z]	636
LEFSCHETZ, SOLOMON	105	[P, X]	632
LENTIN, A.	114	[Z]	637
LEONDES, C. T., Editor	33	[P, X]	186
LEONDES, C. T., Editor	106	[P, X]	632
LETHER, FRANK G.	78	[X]	463
LEVITAN, YU. L.	47	[A, S]	334
LIND, DOUGLAS	88	[F]	618
LING, CHIH-BING	16	[H]	175
LYUSTERNIK, L. A.	64	[A-E, X, Z]	452
LYUSTERNIK, L. A., Editor	65	[C, D]	453
MARCUS, MARVIN	52	[G]	336
MARGULIS, B. E.	17	[H, X]	175
MARSHALL, JAMES L.	72	[P]	458
MARTIN, D. G.	48	[D]	334
MARTIN, D. G.	49	[D]	335
MARTIN, JAMES	76	[W, Z]	462
MATHEWS, JOHN	36	[S, X]	189
MCCOY, NEAL H.	9	[F]	170
MICHAELSON, S.	32	[P, X]	186
MICHAUD, FRANÇOISE	56	[L, X]	339
MILLER, J. C. P.	3	[B-E, K, S]	168
MINC, HENRYK	52	[G]	336
MORRIS, ROBERT A.	88	[F]	618
MORRIS, ROSA M.	35	[S, X]	188
MURNAGHAN, F. D.	71, 1	[L, M, K]	457
MURNAGHAN, F. D.	71, 2	[L, M, K]	457
MUSKAT, JOSEPH B.	10	[F]	171
NADLER, M.	34	[P, Z]	187
NARASIMHA, RODDAM	95	[L]	624
NG, E. WAI-KWOK	96	[L]	624
NIKIFOROV, A. F.	47	[A, S]	334
NIVAT, M.	114	[Z]	637
NIXON, FLOYD E.	31	[M, X]	185
NOLIN, L.	114	[Z]	637
NORKIN, S. G., Editor	80	[X]	464
OSIPOVA, L. N.	70	[L, M]	457
PENNINGTON, RALPH H.	43	[X, Z]	198
PLUMB, S. C.	46	[Z]	200
POLLACK, SEYMOUR V.	112	[Z]	636
POWELL, F. C.	3	[B-E, K, S]	168
RALL, L. B., Editor	41	[X]	196
RICHARDSON, LEWIS F.	107	[S, V, X, Z]	633
ROBERTS, G. E.	104	[L, X]	631
ROTENBERG, MANUEL, Editor	37	[V, X, Z]	190

Author	*Review Number*	*Table Classification*	*Page*
RYZHIK, I. M.	85	[A, J, L, M]	616
SAATY, T. L., Editor	13	[G, X]	173
SAATY, T. L., Editor	14	[F, X]	173
SALEH, A. K. MD. EHSANES	93	[K]	622
SAUL'YEV, V. K.	77	[X]	462
SHAPIRO, LEONARD D.	88	[F]	618
SIBUYA, MASAAKI	93	[K]	622
SLATER, LUCY JOAN	103	[L, X]	629
SOURIAU, JEAN-MARIE	53	[G]	337
SOUTHWORTH, RAYMOND W.	74	[P, X]	460
SPIRA, ROBERT	24	[L]	180
STAMPER, PATRICIA C.	81	[X]	465
STEGUN, IRENE A., Editor	1	[A-F, H-M, R, S, X]	167
SWITZER, KEITH A.	50	[D, E, H, L, P, X]	335
SYRET, H. E.	25	[L, M]	181
THOMPSON, RORY	97	[L, M]	625
TOOTILL, G. C.	111	[Z]	635
TUMARKIN, S. A.	70	[L, M]	457
UVAROV, V. B.	47	[A, S]	334
WALKER, R. L.	36	[S, X]	189
WEISS, ERIC A.	61	[Z]	341
WILKINSON, J. H.	90	[H, X]	621
WILSON, M. W.	25	[L, M]	181
WRENCH, J. W., JR.	71,1	[L, M, K]	457
WRIGHT, E. B.	66	[D]	454
WUNDERLICH, MARVIN	87	[F]	618
YANPOL'SKII, A. R.	64	[A-E, X, Z]	452
ZABRANSKY, F.	93	[K]	622
ZONNEVELD, J. A.	110	[X, Z]	635

INDEX OF REVIEWS BY SUBJECT OF WORK REVIEWED

A. Arithmetical Tables, Mathematical Constants

Author	*Review*	*Title*	*Page*
ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	1	*Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables*	167
BARRIÈRE, G.	2	*Tables de logarithmes de logarithmes, logarithmes de cologarithmes, logarithmes à six décimales*	167
GRADSHTEYN, I. S. & RYZHIK, I. M.	85	*Table of Integrals, Series, and Products*	616
LYUSTERNIK, L. A., CHERVONENKIS, O. A. & YANPOL'SKII, A. R.	64	*Handbook for Computing Elementary Functions*	452
NIKIFOROV, A. F., UVAROV, V. B. & LEVITAN, YU. L.	47	*Tables of Racah Coefficients*	334

B. Powers

ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	1	*Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables*	167

Author	Review	Title	Page
LYUSTERNIK, L. A., CHERVONENKIS, O. A. & YANPOL'SKII, A. R.	64	*Handbook for Computing Elementary Functions*	452
MILLER, J. C. P. & POWELL, F. C.	3	*The Cambridge Elementary Mathematical Tables*	168

C. Logarithms

ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	1	*Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables*	167
ATTWOOD, C.	6	*Six-Figure Logarithmic Trigonometrical Functions of Angles in Degrees and Minutes*	169
ATTWOOD, C.	7	*Six-Figure Logarithmic Trigonometrical Functions of Angles in Hundredths of a Degree*	170
ATTWOOD, C.	8	*Six-Figure Logarithms, Cologarithms and Antilogarithms*	170
BARRIÈRE, G.	2	*Tables de logarithmes de logarithmes, logarithmes de cologarithmes, logarithmes à six décimales*	167
LYUSTERNIK, L. A., Editor	65	*Ten-Decimal Tables of the Logarithms of Complex Numbers and for the Transformation from Cartesian to Polar Coordinates*	453
LYUSTERNIK, L. A., CHERVONENKIS, O. A. & YANPOL'SKII, A. R.	64	*Handbook for Computing Elementary Functions*	452
MILLER, J. C. P. & POWELL, F. C.	3	*The Cambridge Elementary Mathematical Tables*	168

D. Circular Functions

ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	1	*Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables*	167
ATTWOOD, C.	4	*Six-Figure Trigonometrical Functions of Angles in Degrees and Minutes*	168
ATTWOOD, C.	5	*Six-Figure Trigonometrical Functions of Angles in Hundredths of a Degree*	169
ATTWOOD, C.	6	*Six-Figure Logarithmic Trigonometrical Functions of Angles in Degrees and Minutes*	169
ATTWOOD, C.	7	*Six-Figure Logarithmic Trigonometrical Functions of Angles in Hundredths of a Degree*	170
GARDINER, W. K. & WRIGHT, E. B.	66	*Five-Figure Table of the Functions $1/(1 - \tan\theta)$ and $1/(1 - \cot\theta)$ for the Range $-90°(1')90°$*	454
KHRENOV, L. S.	67	*Tables for Computing Elevations in Topographic Levelling*	455
LYUSTERNIK, L. A., Editor	65	*Ten-Decimal Tables of the Logarithms of Complex Numbers and for the Transformation from Cartesian to Polar Coordinates*	453
LYUSTERNIK, L. A., CHERVONENKIS, O. A. & YANPOL'SKII, A. R.	64	*Handbook for Computing Elementary Functions*	452
MARTIN, D. G.	48	*Tables of $(\sin^2 x)/x^2$ to Six Decimal Places*	334
MARTIN, D. G.	49	*Tables of $(\sin x)/x$ to Six Decimal Places*	335
MILLER, J. C. P. & POWELL, F. C.	3	*The Cambridge Elementary Mathematical Tables*	168
SWITZER, KEITH A.	50	*Tables of Roots of Certain Transcendental Equations Arising in Eigenfunction Expansions*	335

Author	Review	Title	Page
E. Hyperbolic and Exponential Functions			
ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	1	*Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables*	167
LYUSTERNIK, L. A., CHERVONENKIS, O. A. & YANPOL'SKII, A. R.	64	*Handbook for Computing Elementary Functions*	452
MILLER, J. C. P. & POWELL, F. C.	3	*The Cambridge Elementary Mathematical Tables*	168
SWITZER, KEITH A.	50	*Tables of Roots of Certain Transcendental Equations Arising in Eigenfunction Expansions*	335
F. Theory of Numbers			
ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	1	*Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables*	167
BEEGER, N. G. W. H.	68	*Tafel van den kleinsten factor der getallen van 999 999 000—1000 119 120 die niet deelbaar zijn door 2, 3, 5*	456
BEEGER, N. G. W. H.	69	*Tafel van den kleinsten factor der getallen 61 621 560—61 711 650 die niet door 2, 3, 5 deelbaar zijn*	456
GAUSS, CARL FRIEDRICH	86	*Disquisitiones Arithmeticae*	617
KHINCHIN, A. YA.	12	*Continued Fractions*	171
KHINTCHINE, A. YA.	11	*Continued Fractions*	171
LAL, M., JONES, M. F. & B[illegible]NDON, W. J.	89	*Tables of Solutions of the Diophantine Equation* $Y^3 - X^2 = K$	620
LIN[illegible], DOUGLAS, MORRIS, ROBERT A. & SHAPIRO, LEONARD D.	88	*Tables of Fibonacci Entry Points, Part Two*	618
MCCOY, NEAL H.	9	*The Theory of Numbers*	170
MUSKAT, JOSEPH B.	10	*On Divisors of Odd Perfect Numbers*	171
SAATY, T. L., Editor	14	*Lectures on Modern Mathematics, Volume III*	173
WUNDERLICH, MARVIN	87	*Tables of Fibonacci Entry Points*	618
G. Higher Algebra			
DAVIS, PHILIP J.	15	*The Mathematics of Matrices*	174
MARCUS, MARVIN & MINC, HENRYK	52	*Introduction to Linear Algebra*	336
SAATY, T. L., Editor	13	*Lectures on Modern Mathematics, Volume II*	173
SOURIAU, JEAN-MARIE	53	*Calcul Linéaire*	337
H. Numerical Solution of Equations			
ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	1	*Handbook of Mathematical Functions with Formulas, Graphs and Mathematical Tables*	167
LING, CHIH-BING	16	*Values of the Roots of Eight Equations of Algebraic-Transcendental Type*	175
MARGULIS, B. E.	17	*Systems of Linear Equations*	175
SWITZER, KEITH A.	50	*Tables of Roots of Certain Transcendental Equations Arising in Eigenfunction Expansions*	335
WILKINSON, J. H.	90	*The Algebraic Eigenvalue Problem*	621
I. Finite Differences, Interpolation			
ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	1	*Handbook of Mathematical Functions with Formulas, Graphs and Mathematical Tables*	167

Author	Review	Title	Page
DAVIS, PHILIP J.	18	*Interpolation and Approximation*	175
KARPOV, K. A.	91	*Tables of Lagrange Interpolation Coefficients*	621

J. Summation of Series

ABRAMOWITZ, MILTON, & STEGUN, IRENE A., Editors	1	*Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables*	167
GRADSHTEYN, I. S. & RYZHIK, I. M.	85	*Tables of Integrals, Series and Products*	616

K. Statistics

ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	1	*Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables*	167
BARNETT, V. D.	19	*Random Negative Exponential Deviates*	176
BENNETT, B. M. & HORST, C.	92	*Supplement to Tables for Testing Significance in a 2×2 Contingency Table (Five and One Percent Significance Points for $41 \leq A \leq 60$, $B \leq A$)*	622
FREEMAN, HERBERT	20	*Discrete Time Systems: An Introduction to the Theory*	177
FRY, THORNTON C.	21	*Probability and Its Engineering Uses*	178
KLEINROCK, LEONARD	22	*Communication Nets: Stochastic Message Flow and Delay*	178
KRISHNAN, T.	54	*Table of Truncated Probits*	337
MILLER, J. C. P. & POWELL, F. C.	3	*The Cambridge Elementary Mathematical Tables*	168
MURNAGHAN, F. D.	71, 2	*Evaluation of the Probability Integral to High Precision*	457
MURNAGHAN, F. D. & WRENCH, J. W., JR.	71, 1	*The Converging Factor for the Exponential Integral*	457
ZABRANSKY, F., SIBUYA, MASAAKI & SALEH, A. K. MD. EHSANES	93	*Tables for Estimation of the Exponential Distribution by the Linear Combinations of the Optimal Subset of Order Statistics*	622

L. Higher Mathematical Functions

ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	1	*Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables*	167
BLANCH, G. & CLEMM, DONALD S.	23	*Tables Relating to the Radial Mathieu Functions, Vol. 2*	179
DITKIN, V. A.	94	*Tablitsy Logarifmicheskoĭ Proizvodnoĭ Gamma-funktsii i ee Proizvodnykh v Kompleksnoĭ Oblasti*	623
EMERSLEBEN, OTTO	102	"Über lineare Beziehungen zwischen Madelung-konstanten"	633
FETTIS, HENRY E. & CASLIN, JAMES C.	99	*Elliptic Integral of the First Kind and Elliptic Integral of the Second Kind*	626
FETTIS, HENRY E. & CASLIN, JAMES C.	100	*Table of the Jacobian Zeta Function*	627
FETTIS, HENRY E. & CASLIN, JAMES C.	101	*Heuman Lambda Function*	627
FRISCH-FAY, R.	55	*Tables of Integrals of Fractional Order Bessel Functions*	338
GRADSHTEYN, I. S. & RYZHIK, I. M.	85	*Table of Integrals, Series and Products*	616

Author	Review	Title	Page
KATSURA, SHIGETOSHI, INOUE, YUJI, HAMASHITA, SEIJI & KILPATRICK, J. E.	98	*Tables of Integrals of Threefold and Fourfold Products of Associated Legendre Functions*	625
KRISHNAN, T.	54	*Table of Truncated Probits*	337
LEBEDEV, N. N.	26	*Special Functions and Their Applications*	181
MICHAUD, FRANÇOISE	56	*Étude sur les représentations approchées des solutions de l'équation de Mathieu*	339
MURNAGHAN, F. D.	71, 2	*Evaluation of the Probability Integral to High Precision*	457
MURNAGHAN, F. D. & WRENCH, J. W., JR.	72, 1	*The Converging Factor for the Exponential Integral*	457
NARASIMHA, RODDAM	95	*On the Incomplete Gamma-function with One Negative Argument*	624
NG, E. WAI-KWOK	96	*Lommel Functions of Two Imaginary Arguments*	624
OSIPOVA, L. N. & TUMARKIN, S. A.	70	*Tables for the Computation of Toroidal Shells*	457
ROBERTS, G. E. & KAUFMAN, H.	104	*Table of Laplace Transforms*	625
SLATER, LUCY JOAN	103	*Generalized Hypergeometric Functions*	629
SPIRA, ROBERT	24	*Check Values, Zeros and FORTRAN Programs for the Riemann Zeta Function and Its First Three Derivatives*	180
SYRET, H. E. & WILSON, M. W.	25	*Computation of Fresnel Integrals to 28 Figures: Approximations to 8 and 20 Figures*	181
SWITZER, KEITH A.	50	*Tables of Roots of Certain Transcendental Equations Arising in Eigenfunction Expansions*	335
THOMPSON, RORY	97	*Table of* $I_n(b) = (2/\pi)\int_0^\infty ((\sin x)/x)^n \cos bx\, dx$	625
		M. Integrals	
ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	1	*Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables*	167
COPSON, E. T.	27	*Asymptotic Expansions*	182
FETTIS, HENRY E. & CASLIN, JAMES C.	99	*Elliptic Integral of the First Kind* and *Elliptic Integral of the Second Kind*	626
FETTIS, HENRY E. & CASLIN, JAMES C.	100	*Table of the Jacobian Zeta Function*	627
FETTIS, HENRY E. & CASLIN, JAMES C.	101	*Heuman Lambda Function*	627
GRADSHTEYN, I. S. & RYZHIK, I. M.	85	*Table of Integrals, Series and Products*	616
HARTMAN, PHILIP	28	*Ordinary Differential Equations*	183
HENRICI, PETER	29	*Discrete Variable Methods in Ordinary Differential Equations*	183
KATSURA, SHIGETOSHI, INOUE, YUJI, HAMASHITA, SEIJI & KILPATRICK, J. E.	98	*Tables of Integrals of Threefold and Fourfold Products of Associated Legendre Functions*	625
KRISHNAN, T.	54	*Table of Truncated Probits*	337
KRONROD, ALEXSANDR SEMENOVICH	30	*Nodes and Weights of Quadrature Formulas*	184
MURNAGHAN, F. D.	71, 2	*Evaluation of the Probability Integral to High Precision*	457
MURNAGHAN, F. D. & WRENCH, J. W., JR.	71, 1	*The Converging Factor for the Exponential Integral*	457
NIXON, FLOYD E.	31	*Handbook of Laplace Transformation: Fundamentals, Applications, Tables, and Examples*	185

Author	Review	Title	Page
OSIPOVA, L. N. & TUMARIN, S. A.	70	*Tables for the Computation of Toroidal Shells*	457
SYRET, H. E. & WILSON, M. W.	25	*Computation of Fresnel Integrals to 28 Figures: Approximations to 8 and 20 Figures*	181
THOMPSON, RORY	97	*Table of* $I_n(b) = (2/\pi)\int_0^\infty ((\sin x)/x)^n \cos bx\, dx$	625

P. Engineering

BENEŠ, V. E.	57	*Mathematical Theory of Connecting Networks and Telephone Traffic*	339
BILLINGSLEY, PATRICK	73	*Ergodic Theory and Information*	459
BISHOP, R. E. D., GLADWELL, G. M. L. & MICHAELSON, S.	32	*The Matrix Analysis of Vibration*	186
BURROWS, WALTER HERBERT	62	*Graphical Techniques for Engineering Computations*	342
FREEMAN, HERBERT	20	*Discrete-Time Systems: An Introduction to the Theory*	177
FRY, THORTON C.	21	*Probability and Its Engineering Uses*	178
KHRENOV, L. S.	67	*Tables for Computing Elevations in Topographic Levelling*	455
KLEINROCK, LEONARD	22	*Communication Nets: Stochastic Message Flow and Delay*	178
LEFSCHETZ, SOLOMON	105	*Stability of Nonlinear Control Systems*	632
LEONDES, C. T., Editor	33	*Advances in Control Systems, Theory and Applications*	186
LEONDES, C. T., Editor	106	*Advances in Control Systems, Vol. 2*	632
MARSHALL, JAMES L.	72	*Introduction to Signal Theory*	458
NADLER, M.	34	*Topics in Engineering Logic*	187
SOUTHWORTH, RAYMOND W. & DELEEUW, SAMUEL L.	74	*Digital Computation and Numerical Methods*	400
SWITZER, KEITH A.	50	*Tables of Roots of Certain Transcendental Equations Arising in Eigenfunction Expansions*	335

R. Geodesy

ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	1	*Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables*	167
KHRENOV, L. S.	67	*Tables for Computing Elevations in Topographic Levelling*	455

S. Physics, Geophysics, Crystallography

ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	1	*Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables*	167
CHISHOLM, J. S. R. & MORRIS, ROSA M.	35	*Mathematical Methods in Physics*	188
EMERSLEBEN, OTTO	102	"Über lineare Beziehungen zwischen Madelungkonstanten"	633
MATHEWS, JON & WALKER, R. L.	36	*Mathematical Methods of Physics*	189
MILLER, J. C. P. & POWELL, F. C.	3	*The Cambridge Elementary Mathematical Tables*	168
NIKIFOROV, A. F., UVAROV, V. B. & LEVITAN, YU. L.	47	*Table of Racah Coefficients*	334
RICHARDSON, LEWIS F.	107	*Weather Prediction by Numerical Process*	633

Author	Review	Title	Page
V. Aerodynamics, Hydrodynamics, Ballistics			
ALDER, BERNI, FERNBACH, SIDNEY & ROTENBERG, MANUEL, Editors	37	*Methods in Computational Physics, Vol. 3: Fundamental Methods in Hydrodynamics*	190
RICHARDSON, LEWIS F.	107	*Weather Prediction by Numerical Process*	633
W. Economics and Social Sciences			
CHRISTENSON, CHARLES	75	*Strategic Aspects of Competitive Bidding for Corporate Securities*	461
MARTIN, JAMES	76	*Programming Real-Time Computer Systems*	462
X. Numerical Analysis and Applied Mathematics			
ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	1	*Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables*	167
ALDER, BERNI, FERNBACH, SIDNEY & ROTENBERG, MANUEL, Editors	37	*Methods in Computational Physics, Vol. 3: Fundamental Methods in Hydrodynamics*	190
BARY, N. K.	38	*A Treatise on Trigonometric Series*	191
BECKER, MARTIN	39	*The Principles and Applications of Variational Methods*	195
BENEŠ, V. E.	57	*Mathematical Theory of Connecting Networks and Telephone Traffic*	339
BILLINGSLEY, PATRICK	73	*Ergodic Theory and Information*	459
BISHOP, R. E. D., GLADWELL, G. M. L. & MICHAELSON, S.	32	*The Matrix Analysis of Vibration*	186
CHISHOLM, J. S. R. & MORRIS, ROSA M.	35	*Mathematical Methods in Physics*	188
COPSON, E. T.	27	*Asymptotic Expansions*	182
COURANT, RICHARD & JOHN, FRITZ	109	*Introduction to Calculus and Analysis, Vol. 1*	634
DAVIS, PHILIP J.	18	*Interpolation and Approximation*	175
ECKHAUS, WIKTOR	108	*Studies in Non-Linear Stability Theory*	633
ENCYCLOPEDIA	42	*The Universal Encyclopedia of Mathematics*	197
HARTMAN, PHILIP	28	*Ordinary Differential Equations*	183
HENRICI, PETER	29	*Discrete Variable Methods in Ordinary Differential Equations*	183
HILDEBRAND, FRANCIS B.	40	*Methods of Applied Mathematics*	196
INSTITUTO GULBENKIAN DE CIENCIA	84	*Sistema de Programacao, Fortran 2*	467
JENNINGS, WALTER	79	*First Course in Numerical Methods*	463
KEMENY, JOHN G.	63	*Random Essays on Mathematics, Education and Computers*	342
KHABAZA, I. M.	58	*Numerical Analysis*	340
KHINCHIN, A. YA.	12	*Continued Fractions*	171
KHINTCHINE, A. YA.	11	*Continued Fractions*	171
KRONROD, ALEXSANDR SEMENOVICH	30	*Nodes and Weights of Quadrature Formulas*	184
LEBEDEV, N. N.	26	*Special Functions and Their Applications*	181
LEFSCHETZ, SOLOMON	105	*Stability of Nonlinear Control Systems*	632
LEONDES, C. T., Editor	33	*Advances in Control Systems, Theory and Applications*	186
LEONDES, C. T., Editor	106	*Advances in Control Systems, Vol. 2*	632

Author	Review	Title	Page
LETHER, FRANK G.	78	*Abscissas for Chebyshev Quadrature*	463
LYUSTERNIK, L. A., CHERVONENKIS, O. A. & YANPOL'SKII, A. R.	64	*Handbook for Computing Elementary Functions*	452
MARGULIS, B. E.	17	*Systems of Linear Equations*	175
MATHEWS, JON & WALKER, R. L.	36	*Mathematical Methods of Physics*	189
MICHAUD, FRANÇOISE	56	*Étude sur les représentations approchées des solutions de l'équation de Mathieu*	339
NIXON, FLOYD E.	31	*Handbook of Laplace Transformation: Fundamentals, Applications, Tables, and Examples*	185
NORKIN, S. B., Editor	80	*The Elements of Computational Mathematics*	464
PENNINGTON, RALPH H.	43	*Introductory Computer Methods and Numerical Analysis*	198
RALL, L. B., Editor	41	*Error in Digital Computation, Vol. 1*	196
RICHARDSON, LEWIS F.	107	*Weather Prediction by Numerical Process*	633
ROBERTS, G. E. & KAUFMAN, H.	104	*Table of Laplace Transforms*	631
SAATY, T. L., Editor	13	*Lectures on Modern Mathematics, Volume II*	173
SAATY, T. L., Editor	14	*Lectures on Modern Mathematics, Volume III*	173
SAUL'YEV, V. K.	77	*Integration of Equations of Parabolic Type by the Method of Nets*	462
SLATER, LUCY JOAN	103	*Generalized Hypergeometric Functions*	629
SOUTHWORTH, RAYMOND W. & DELEEUW, SAMUEL L.	74	*Digital Computation and Numerical Methods*	460
STAMPER, PATRICIA C.	81	*Table of Gregory Coefficients*	465
SWITZER, KEITH A.	50	*Tables of Roots of Certain Transcendental Equations Arising in Eigenfunction Expansions*	335
WILKINSON, J. H.	90	*The Algebraic Eigenvalue Problem*	621
ZONNEVELD, J. A.	110	*Automatic Numerical Integration*	635

Z. Calculating Machines and Mechanical Computation

ALDER, BERNI, FERNBACH, SIDNEY & ROTENBERG, MANUEL, Editors	37	*Methods in Computational Physics, Vol. 3: Fundamental Methods in Hydrodynamics*	190
ARSAC, J., LENTIN, A., NIVAT, M. & NOLIN, L.	114	*Algol, Théorie et Pratique*	637
BROOKS, F. P., JR. & IVERSON, K. E.	60	*Automatic Data Processing*	341
BRUYEVICH, N. G., Editor	44	*Problems of the Design and Accuracy of Complex Continuous Action Devices and Computer Mechanisms*	199
BURROWS, WALTER HERBERT	62	*Graphical Techniques for Engineering Computations*	342
DAVIS, MARTIN, Editor	45	*The Undecidable: Basic Papers on Undecidable Propositions, Unsolvable Problems and Computable Functions*	199
GERMAIN, CLARENCE B.	82	*Programming the IBM 1620*	466
GOLDEN, JAMES T.	83	*FORTRAN IV—Programming and Computing*	466
HOLLINGDALE, S. H. & TOOTILL, G. C.	111	*Electronic Computers*	635
INSTITUTO GULBENKIAN DE CIENCIA	84	*Sistema de Programacao, Fortran 2*	467
KEMENY, JOHN G.	63	*Random Essays on Mathematics, Education and Computers*	342

Author	Review	Title	Page
LECHT, CHARLES PHILIP	113	*The Programmer's Fortran II and IV*	636
LYUSTERNIK, L. A., CHERVONENKIS, O. A. & YANPOL'SKII, A. R.	64	*Handbook for Computing Elementary Functions*	452
MARTIN, JAMES	76	*Programming Real-Time Computer Systems*	462
NADLER, M.	34	*Topics in Engineering Logic*	187
PENNINGTON, RALPH H.	43	*Introductory Computer Methods and Numerical Analysis*	198
PLUMB, S. C.	46	*Introduction to FORTRAN*	200
POLLACK, SEYMOUR V.	112	*A Guide to Fortran IV*	636
RICHARDSON, LEWIS F.	107	*Weather Prediction by Numerical Process*	633
WEISS, ERIC A.	61	*Programming the IBM 1620: The Hands-on Approach*	341
ZONNEVELD, J. A.	110	*Automatic Numerical Integration*	635

INDEX OF TABLE ERRATA

No.	Author	Title	Page
379	ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	*Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables*	202
388	ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	*Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables*	344
393	ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	*Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables*	469
399	ABRAMOWITZ, MILTON & STEGUN, IRENE A., Editors	*Handbook of Mathematical Functions with Formulas, Graphs, and Mathematical Tables*	640
391	ADAMS, E. P. & HIPPISLEY, R. L.	*Smithsonian Mathematical Formulae and Tables of Elliptic Functions*	468
380	BARAKAT, RICHARD, HOUSTON, AGNES, & LEVIN, ELGIE	"Power series expansions of Mathieu functions with tables of numerical results"	202
389	BYRD, PAUL F. & FRIEDMAN, MORRIS D.	*Handbook of Elliptic Integrals for Engineers and Physicists*	344
397	BYRD, PAUL F. & FRIEDMAN, MORRIS D.	*Handbook of Elliptic Integrals for Engineers and Physicists*	639
381	CLARK, M., JR. & HANSEN, K. F.	*Numerical Methods of Reactor Analysis*	203
400	ERDÉLYI, A., MAGNUS, W., OBERHETTINGER, F. & TRICOMI, F. G.	*Higher Transcendental Functions*	641
401	ERDÉLYI, A., MAGNUS, W., OBERHETTINGER, F. & TRICOMI, F. G.	*Tables of Integral Transforms*	641
398	FETTIS, HENRY E. & CASLIN, JAMES C.	*Tables of Elliptic Integrals of the First, Second and Third Kinds*	639
395	GLOVER, J. W.	*Tables of Applied Mathematics in Finance, Insurance, and Statistics*	471
382	LANCE, G. N.	*Numerical Methods for High Speed Computers*	203
403	LEHMER, D. H.	*Guide to Tables in the Theory of Numbers*	642

No.	Author	Title	Page
404	LEHMER, D. N.	*List of Prime Numbers from 1 to 10,006,721*	642
383	MCLACHLAN, N. W., HUMBERT, P. & POLI, L.	*Supplement au Formulaire pour le Calcul Symbolique*	203
384	NATRELLA, MARY G.	*Experimental Statistics*	203
385	RITCHIE, R. H. & SAKAKURA, A. Y.	"Asymtotic expansions of solutions of the heat conduction equation in internally bounded cylindrical geometry"	204
402	ROBERTS, G. E. & KAUFMAN, H.	*Table of Laplace Transforms*	641
392	RYSHIK, I. M. & GRADSTEIN, I. S.	*Summen-, Produkt- und Integral-Tafeln: Tables of Series, Products and Integrals*	468
394	SHELDON, J. W., ZONDEK, B. & FRIEDMAN, M.	"On the time-step to be used for the computation of orbits by numerical integration"	470
396	SPENCELEY, G. W., SPENCELEY, R. M. & EPPERSON, E. R.	*Smithsonian Logarithmic Tables to Base e and Base 10*	471
390	SPIRA, ROBERT	*Tables Related to* $x^2 + y^2$ *and* $x^4 + y^4$	344
386	TALLQVIST, H. J.	*Tafeln der 24 ersten Kugelfunktionen* P_n $(\cos\theta)$	205
386	TALLQVIST, H. J.	*Tafeln der Kugelfunktionen* P_{25} $(\cos\theta)$ *bis* P_{32} $(\cos\theta)$	205
386	TALLQVIST, H. J.	*Sechsstellige Tafeln der 32 ersten Kugelfunktionen* P_n $(\cos\theta)$	206
387	WALTHER, A.	"Anschauliches zur Riemannschen Zetafunction"	206

INDEX OF CORRIGENDA

Author	Title	Page
ALEXANDROFF, P. S.	*Introduction à la Théorie des Groupes*	344
BURGOYNE, F. D.	"Generalized trigonometric functions"	643
CODY, W. J.	"Chebyshev approximations for the complete elliptic integrals K and E"	207
GRUENBERGER, F. & ARMERDING, G.	*Statistics on the First Six Million Prime Numbers*	207
WRENCH, J. W., JR.	"Evaluation of Artin's constant and the twin-prime constant"	643

INDEX OF NOTES

		Page
New Journal	Journal of Computational Physics	345
New Journal	Cybernetics	644
New Journal	Computing: Archives for Electronic Computing	644
New Journal	Journal of Computer and Systems Sciences	644
New Journal	Journal of Combinatorial Theory	645
Announcement	Delay Line Sieve	645
Newsletter	Special Interest Committee on Numerical Mathematics (SICNUM)	646